Algorithms in the Field
(AitF)

Algorithms in the Field (AitF)

Tracy Kimbrel
Bala Kalyanasundaram
Todd Leen
Thyaga Nandagopal
December 18, 2014

Agenda

- Overview

- Solicitation highlights

- FAQs

- Questions and answers

The AitF Program

- New solicitation aiming to support groundbreaking research involving collaborations combining theory and practice

- Each proposal must have two (or more) PIs with different and distinct expertise
  - One working in theory
  - One in a "field area"

- Research outcomes should be of interest to both theory and applied communities.

FY15 Solicitation (NSF 15-515)

http://www.nsf.gov/pubs/2015/nsf15515/nsf15515.htm

- FULL-SIZE proposals
    - Up to $800k
    - Up to 4 years
- EXPLORATORY proposals
    - Preliminary work or proofs-of-concept that could lead to future FULL-SIZE projects.
    - Up to $400k
    - Up to 3 years
- Estimated 9-12 FULL-SIZE awards of up to $800k and 3-6 EXPLORATORY awards of up to $400k, subject to availability of funds.
- Proposals are due February 9, 2015.

Eligibility Information

- Who May Serve as a PI?
  - At least two PIs required

- Limit on Number of Proposals per PI or co-PI?
  - May participate as PI, co-PI, or senior personnel in no more than <u>two</u> proposals in this competition

Required Supplementary Documentation

- Collaboration plan (limited to 2 pages)

- Data management plan (limited to 2 pages)

- Description of mentoring activities for postdoctoral researchers, if requesting funding to support any (limited to 1 page)

Collaboration Plan

- Required for each proposal
  - Distinct expertise provided by the PIs
  - Plan to work together to advance knowledge in algorithms as well as at least one field area

- Up to 2 pages

- **Proposals without this document will be returned without review**

For more information:

- Slides and script available at:
  http://www.nsf.gov/events/

- Program Director contacts:
  - tkimbrel@nsf.gov Tracy Kimbrel, Computing and Communication Foundations (CCF)
  - bkalyana@nsf.gov Bala Kalyanasundaram, CCF
  - tleen@nsf.gov Todd Leen, Information and Intelligent Systems (IIS)
  - tnandago@nsf.gov Thyaga Nandagopal, Computer and Network Systems (CNS)

FAQ 1

- Q: How can I tell whether my proposed research is a good fit for the AitF program?

- A: Collaborations between researchers
  - interested in the rigorous design and analysis of algorithms
  - interested in any of the other areas typically supported by the Directorate for Computer & Information Science & Engineering (CISE).

FAQ 2

- Q: Should I discuss my proposal with NSF Program Directors?

- A: Yes, PIs are encouraged to discuss planned proposals with Program Directors to assist them in determining whether AitF is a suitable program for the work. Please be considerate of Program Directors' time and refrain from scheduling separate meetings or calls with multiple Program Directors in the same program. Once submitted, the substance of proposals will not be discussed by NSF Program Directors, as this would constitute unfair competition, or the perception thereof.

FAQ 3

- Q: Do AitF proposals count against the Directorate for Computer & Information Science & Engineering (CISE) Core program limits on number of proposals allowable per year?

- A: No. The limits imposed by the CISE Core programs do not apply. No person, however, can be PI, co-PI, or senior personnel on more than two AitF proposals.

For more information:

- Slides and script available at:
  http://www.nsf.gov/events/

- Program Director contacts:
  - tkimbrel@nsf.gov Tracy Kimbrel, Computing and Communication Foundations (CCF)
  - bkalyana@nsf.gov Bala Kalyanasundaram, CCF
  - tleen@nsf.gov Todd Leen, Information and Intelligent Systems (IIS)
  - tnandago@nsf.gov Thyaga Nandagopal, Computer and Network Systems (CNS)